

# Correlates of hot day air-conditioning use among middle-aged and older adults with chronic heart and lung diseases: The role of health beliefs and cues to action

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#### Abstract:

Extreme ambient heat is a serious public health threat, especially for the elderly and persons with pre-existing health conditions. Although much of the excess mortality and morbidity associated with extreme heat is preventable, the adoption of effective preventive strategies is limited. The study reported here tested the predictive power of selected components of the Health Belief Model for air-conditioning (AC) use among 238 non-institutionalized middle-aged and older adults with chronic heart failure and/or chronic obstructive pulmonary disease living in Montreal, Canada. Respondents were recruited through clinics (response rate 71%) and interviews were conducted in their homes or by telephone. Results showed that 73% of participants reported having a home air conditioner. The average number of hours spent per 24-hour period in air-conditioned spaces during heat waves was 14.5 hours (SD Euro Surveillance (Bulletin Europeen Sur Les Maladies Transmissibles; European Communicable Disease Bulletin) 9.4). Exploratory structural equation modeling showed that specific beliefs about the benefits of and drawbacks to AC as well as internal cues to action were predictive of its level of use, whereas the perceived severity of the effects of heat on health was not. The findings are discussed in light of the need to adequately support effective response to extreme heat in this vulnerable population.

Source: <a href="http://dx.doi.org/10.1093/her/cyq072">http://dx.doi.org/10.1093/her/cyq072</a>

#### **Resource Description**

#### Communication: M

resource focus on research or methods on how to communicate or frame issues on climate change; surveys of attitudes, knowledge, beliefs about climate change

A focus of content

#### Communication Audience: M

audience to whom the resource is directed

**Public** 

## Early Warning System: M

resource focus on systems used to warn populations of high temperatures, extreme weather, or other elements of climate change to prevent harm to health

## Climate Change and Human Health Literature Portal

A focus of content Exposure: M weather or climate related pathway by which climate change affects health Temperature Temperature: Extreme Heat Geographic Feature: M resource focuses on specific type of geography Urban Geographic Location: resource focuses on specific location Non-United States Non-United States: Non-U.S. North America Health Impact: M specification of health effect or disease related to climate change exposure Cardiovascular Effect, Respiratory Effect Cardiovascular Effect: Other Cardiovascular Effect Cardiovascular Disease (other): heart failure Respiratory Effect: Chronic Obstructive Pulmonary Disease Intervention: M strategy to prepare for or reduce the impact of climate change on health A focus of content Mitigation/Adaptation: **№** mitigation or adaptation strategy is a focus of resource Adaptation Population of Concern: A focus of content Population of Concern: M populations at particular risk or vulnerability to climate change impacts Elderly

Other Vulnerable Population: pre-existing medical conditions

Resource Type:

format or standard characteristic of resource

# Climate Change and Human Health Literature Portal

### Research Article

Resilience: M

capacity of an individual, community, or institution to dynamically and effectively respond or adapt to shifting climate impact circumstances while continuing to function

A focus of content

Timescale: M

time period studied

Time Scale Unspecified

# Vulnerability/Impact Assessment: №

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content